

EAST Search History

EAST Search History (Prior Art)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	175	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/04 13:39
L2	131	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/04 13:39
L3	297	L1 L2	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/04 13:39
L4	17	L3 and @py>="2010"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/11/04 13:39
S1	160849	stiffness	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 20:40
S2	185923	damping	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 20:40
S3	5729	S1 same S2	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 20:40
S4	6830097	material	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 20:40
S5	5729	S1 same S2 same S3	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 20:41

S6	643	S1 with S2 with S4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 20:42
S7	1675	S1 same S2 same S4	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 20:41
S8	187811	("360"/\$ "369"/\$ "720"/\$ 29/603\$).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 20:42
S9	52	S6 and S8	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 21:54
S10	20610	viscoelastic	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 21:54
S11	3725136	metal	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 21:54
S12	341917	laminate	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 21:55
S13	68452	HGA (head near2 (suspension assembly gimbal)) (load adj beam)	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 21:55
S14	21	S10 same (S11 S12) same S13	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 22:02
S15	2	"7054109".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/05 22:02

S16	4	US-6549375-\$.DID. OR US-6549376-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/06 15:17
S17	44	US-4760478-\$.DID. OR US-4812935-\$.DID. OR US-4819094-\$.DID. OR US-4933792-\$.DID. OR US-5187625-\$.DID. OR US-0544661-\$.DID. OR US-5483397-\$.DID. OR US-5606477-\$.DID. OR US-5771135-\$.DID. OR US-5774305-\$.DID. OR US-5796553-\$.DID. OR US-5839193-\$.DID. OR US-5844751-\$.DID. OR US-5943191-\$.DID. OR US-6005750-\$.DID. OR US-6212043-\$.DID. OR US-6222704-\$.DID. OR US-6271996-\$.DID. OR US-6307715-\$.DID. OR US-6361740-\$.DID. OR US-6459549-\$.DID. OR US-6498704-\$.DID. OR US-6522050-\$.DID.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/06 15:17
S18	6	(US-20050174694-\$ or US-20030202284-\$ or US- 20030202283-\$).did. or (US-7054109-\$ or US- 6958890-\$).did. or (JP- 03214414-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/06 19:59
S19	9	(US-20050190502-\$ or US-20050135013-\$ or US- 20040264055-\$ or US- 20040120078-\$ or US- 20020057536-\$ or US- 20020021532-\$).did. or (US-6678121-\$ or US- 6600631-\$ or US- 6469872-\$).did.	US-PGPUB; USPAT	OR	OFF	2006/09/06 21:26
S20	1	("5446611").did.	US-PGPUB; USPAT	OR	OFF	2006/09/06 21:26

S21	21	(US-20050190502-\$ or US-20050135013-\$ or US-20040264055-\$ or US-20040120078-\$ or US-20020057536-\$ or US-20020021532-\$ or US-20030202284-\$ or US-20030202283-\$ or US-20050174694-\$).did. or (US-6600631-\$ or US-6678121-\$ or US-6469872-\$ or US-7054109-\$ or US-6958890-\$ or US-6361740-\$ or US-6222704-\$ or US-6212043-\$ or US-6005750-\$ or US-5844751-\$ or US-5796553-\$).did. or (JP-03214414-\$).did.	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/06 21:36
S22	16	S21 and stiff\$6	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/06 21:36
S23	107	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 20:11
S24	92	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2006/09/07 20:11
S25	195	S23 S24	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 19:57
S26	28	(US-20050190502-\$ or US-20050135013-\$ or US-20040264055-\$ or US-20040120078-\$ or US-20020057536-\$ or US-20020021532-\$ or US-20050174694-\$ or US-20030202283-\$ or US-20030202284-\$ or US-20040061975-\$).did. or (US-6600631-\$ or US-6678121-\$ or US-6469872-\$ or US-7054109-\$ or US-6958890-\$ or US-6361740-\$ or US-6212043-\$ or US-	US-PGPUB; USPAT; DERWENT	OR	OFF	2006/09/07 20:44

		6005750-\$ or US- 5796553-\$ or US- 5844751-\$ or US- 6222704-\$ or US- 7088553-\$ or US- 6735050-\$ or US- 5949617-\$ or US- 5825590-\$ or US- 5461525-\$ or US- 4734805-\$).did. or (JP- 03214414-\$).did.				
S27	117	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 13:32
S28	93	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 13:32
S29	206	S27 S28	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 13:34
S30	0	wtko.xa,xp.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 13:35
S31	432	watko.xa,xp.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 13:36
S32	175422	polyimide	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 13:36
S33	21	S31 and S32	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/01/04 13:36
S34	41529	modulus near2 elasticity	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	OFF	2007/06/25 18:45

S35	41543	modulus near2 elasticity	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 18:55
S36	2463663	hinge spring resilient	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 18:55
S37	76558	gimbal flexure	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 18:55
S38	20203	GPa gigaPascals giga? Pascals	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 18:56
S39	1059	S35 and S36 and S37	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 18:56
S40	109	S38 and S39	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 18:56
S41	450	watko.xa,xp.	US-PGPUB; USPAT	OR	OFF	2007/06/25 19:18
S42	5587	steel with etch\$6	US-PGPUB; USPAT	OR	ON	2007/06/25 19:19
S43	3	S41 and S42	US-PGPUB; USPAT	OR	ON	2007/06/25 19:19
S44	920	aoyagi.in.	US-PGPUB; USPAT	OR	ON	2007/06/25 19:20
S45	0	S41 and S44	US-PGPUB; USPAT	OR	ON	2007/06/25 19:20
S46	96660	("360"/\$ "369"/\$ 29/603\$ "720"/\$).ccls.	US-PGPUB; USPAT	OR	ON	2007/06/25 19:20
S47	88	S44 and S46	US-PGPUB; USPAT	OR	ON	2007/06/25 19:20
S48	128	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 19:57

S49	95	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/06/25 19:57
S50	218	S48 S49	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 21:55
S51	43507	modulus near3 elasticity	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:41
S52	4655	damping near3 coefficient	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:46
S53	164	S51 and S52	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:42
S54	843176	suspension (load adj beam) gimbal	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:42
S55	28	S53 and S54	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:42
S56	2656	damping near3 capacity	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:46
S57	165	S51 and S56	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:46
S58	86	S57 and S54	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:53

S59	118	S57 and greater	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:53
S60	5282	S51 same greater	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 06:06
S61	150	S56 same greater	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:53
S62	3	S60 and S61	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:53
S63	3275	S51 with greater	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:54
S64	96	S56 with greater	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:54
S65	2	S63 and S64	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 05:54
S66	3	S62 S65	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 06:06
S67	3318	coefficient near2 restitution	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 06:06
S68	1186	S67 same greater	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 06:06

S69	1	S61 and S68	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/11/21 06:06
S70	133	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 21:56
S71	103	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 21:56
S72	229	S70 S71	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2007/12/03 21:56
S73	144	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/23 12:25
S74	105	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/23 12:25
S75	34	(S73 S74) and @py>="2007"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/23 12:25
S76	2	"5965249".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/23 15:16
S77	21	("5965249").URPN.	USPAT	OR	OFF	2008/05/23 16:51
S78	14	("4128138" "4304694" "4374172" "4488282" "4709781" "5270888" "5331062" "5368916" "5374473" "5434214" "5487928" "5673437" "5712038" "5761184"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/23 16:51
S79	1	("6157522").PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/23 18:06

S80	2	("6157522" "6392843"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/23 18:06
S81	2	"7224554".pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/05/24 11:38
S82	1	("7224554").URPN.	USPAT	OR	OFF	2008/05/24 11:38
S83	30	("4425393" "4543295" "4760478" "4991045" "4996623" "5065268" "5187625" "5368916" "5408372" "5471734" "5594607" "5657187" "5839193" "5965249" "5978178" "6046887" "6091578" "6128880" "6157522" "6388789" "6392843" "6424498" "6512654" "6585902" "6594114" "6700745" "6731466" "6780908" "6785094" "6887577"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/24 11:38
S84	2	("6785094" "5965249"). PN.	US-PGPUB; USPAT; USOCR	OR	OFF	2008/05/24 13:54
S85	148	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 19:25
S86	108	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 19:25
S87	17	(S85 S86) and @py> = "2008"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/10/06 19:25
S88	151	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:35
S89	113	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:35

S90	255	S88 S89	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:35
S91	25	S90 and @py>="2008"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2008/12/19 17:35
S92	68975	damp\$5	US-PGPUB	OR	ON	2008/12/19 17:36
S93	297763	stiffness elastic\$5 young \$3	US-PGPUB	OR	ON	2008/12/19 17:36
S94	405689	modulus capacity	US-PGPUB	OR	ON	2008/12/19 17:37
S95	14877	S92.clm.	US-PGPUB	OR	ON	2008/12/19 17:37
S96	61677	S93.clm.	US-PGPUB	OR	ON	2008/12/19 17:37
S97	37120	S94.clm.	US-PGPUB	OR	ON	2008/12/19 17:37
S98	193	S95 and S96 and S97	US-PGPUB	OR	ON	2008/12/19 17:37
S99	162	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 22:19
S100	120	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 22:19
S101	273	S99 S100	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 22:19
S102	43	S101 and @py>="2008"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 22:19
S103	2	("5965249").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/27 22:20

S104	2	("6785094").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2009/08/28 15:17
S105	3	("6785094" "5965249"). pn. ("20010008475").did.	US-PGPUB; USPAT	OR	OFF	2009/12/02 13:58
S106	2	("7420778").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 18:05
S107	2	("5965249").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/20 18:15
S108	2	("4791484").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 13:36
S109	2	("2001306062").did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 13:38
S110	2	("20020025408").did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 13:52
S111	1863	ceramic near2 (suspension (load adj beam))	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:06
S112	365078	Young's	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:06
S113	353409	Hz Hertz	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:06
S114	0	S111 same S112 same S113	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:07

S115	10	S111 and S112 and S113	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:07
S116	4	("4117463").did.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:09
S117	32	(\$5"117463").did.	JPO	OR	ON	2010/01/21 17:09
S118	2	("4740427").pn.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/21 17:11
S119	167	(360/244.8).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 18:11
S120	122	(360/245).ccls.	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 18:11
S121	280	S119 S120	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 18:11
S122	23	S121 and @py>="2009"	US-PGPUB; USPAT; FPRS; EPO; JPO; DERWENT; IBM_TDB	OR	ON	2010/01/22 18:11
S123	1	"6785094".pn.	US-PGPUB; USPAT	OR	OFF	2010/04/28 11:35
S124	2	("5965249").pn. ("20010008475").did.	US-PGPUB; USPAT	OR	OFF	2010/04/28 11:36

EAST Search History (Interference)

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L5	350964	(hinge spring).clm.	USPAT; UPAD	OR	ON	2010/11/04 13:42
L6	15842	(gimbal flexure dimple).clm.	USPAT; UPAD	OR	ON	2010/11/04 13:42
L7	536190	(beam rigid suspension arm).clm.	USPAT; UPAD	OR	ON	2010/11/04 13:42

L8	41286	(damp\$ viscoelastic\$7). clm.	USPAT; UPAD	OR	ON	2010/11/04 13:43
L9	22414	(stiffness rigidity).clm.	USPAT; UPAD	OR	ON	2010/11/04 13:43
L10	57193	(structural).clm.	USPAT; UPAD	OR	ON	2010/11/04 13:43
L11	143	5 and 6 and 7 and 8	USPAT; UPAD	OR	ON	2010/11/04 13:43
L12	23	11 and (9 10)	USPAT; UPAD	OR	ON	2010/11/04 13:43

11/ 4/ 2010 2:18:34 PM

**C:\ Documents and Settings\ JWatko\ My Documents\ jawdocs\ EAST reference notes\ 10788863.
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